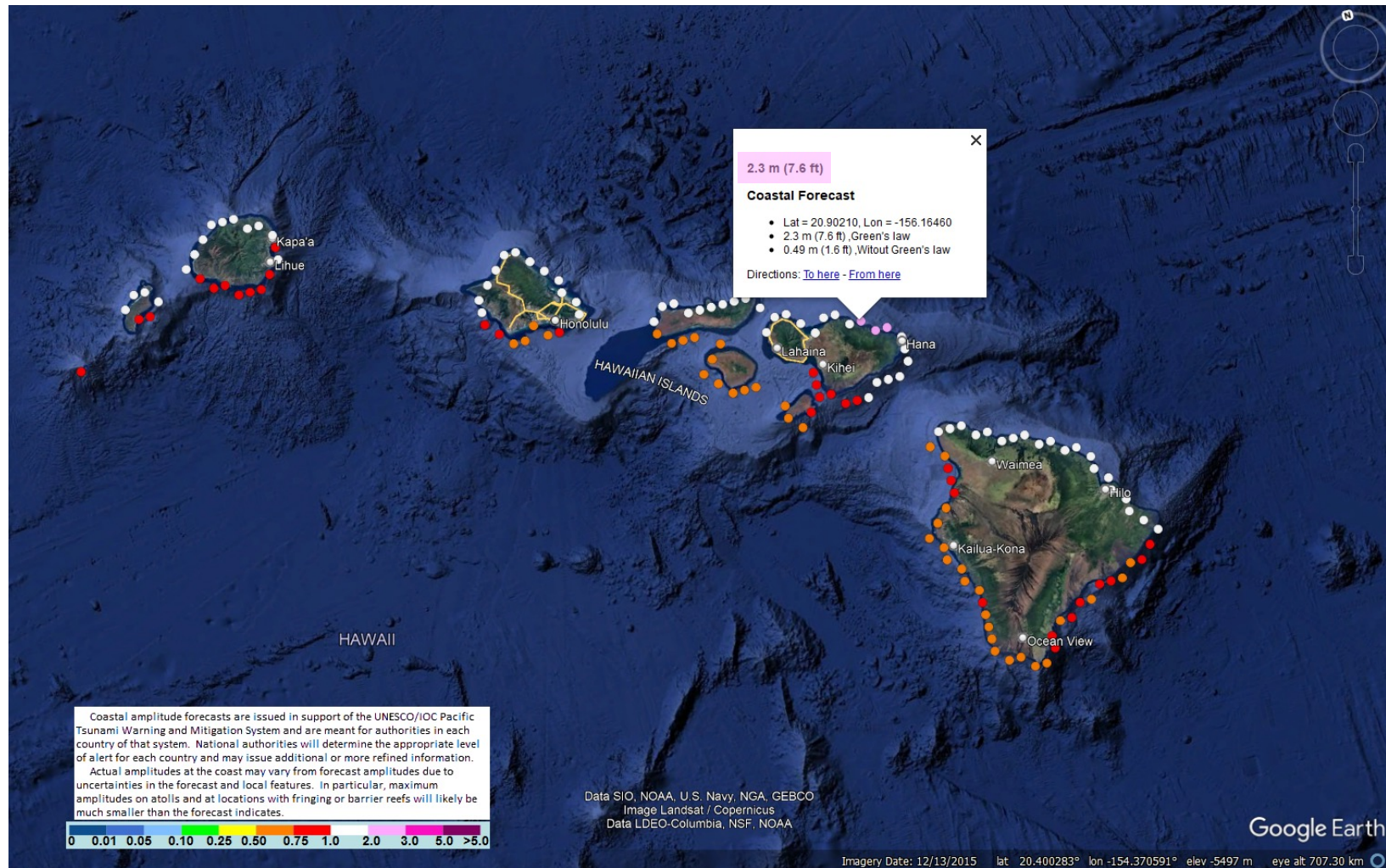


PTWC Response as an NTWC for Hawaii to the July 29, 2025 Kamchatka Mw 8.8 Earthquake and Tsunami

- 2325 UTC July 29 - A magnitude 8.8 earthquake occurs off the east coast of Kamchatka
- 2328 UTC - PTWC operations alerted by seismic alarms
- PTWC Duty Scientists perform preliminary analysis of the earthquake – initial magnitude 8.0
- 2334 UTC - Hawaii is issued a Tsunami Watch (Message 1)
- Further seismic analysis increases the magnitude to 8.7 and provides a mechanism for the earthquake.
- RIFT forecast model is run – indicates a Hawaii Warning. Waiting for reading from DART to confirm tsunami
- 0018 UTC - Hawaii continues in a Tsunami Watch – magnitude updated to 8.7 (Message 2)
- A 0.9 m amplitude tsunami wave is recorded on the nearest DART.
- The SIFT tsunami forecast model is run based on DART reading – confirms Hawaii Warning appropriate.
- 0043 UTC - Hawaii is issued a Tsunami Warning (Message 3)
- 0500 to 0800 UTC Tsunami crosses Hawaii
 - 1.21m maximum amplitude in Haleiwa, Oahu.
 - 1.23m maximum amplitude in Kahului, Maui.
 - 1.74m maximum amplitude in Kahului, Maui
- 0838 UTC - Hawaii is downgraded to a Tsunami Advisory (Message 10)
- 1800 UTC - Tsunami amplitudes in Hawaii have declined to below the Advisory level (below 0.3m).
- 1800 UTC - In a conference call, Hawaii State and County EMs agree to implement procedures to ensure beaches and coastal waters are safe before allowing people to return to normal water activities there.
- 1859 UTC - Tsunami Advisory is cancelled for Hawaii (Message 20)

RIFT Coastal Forecast based on PTWC W-Phase CMT



SIFT Inversion #3 for July 29-31 Kamchatka Earthquake and Tsunami Inundation Model for Hilo

